Fig.1

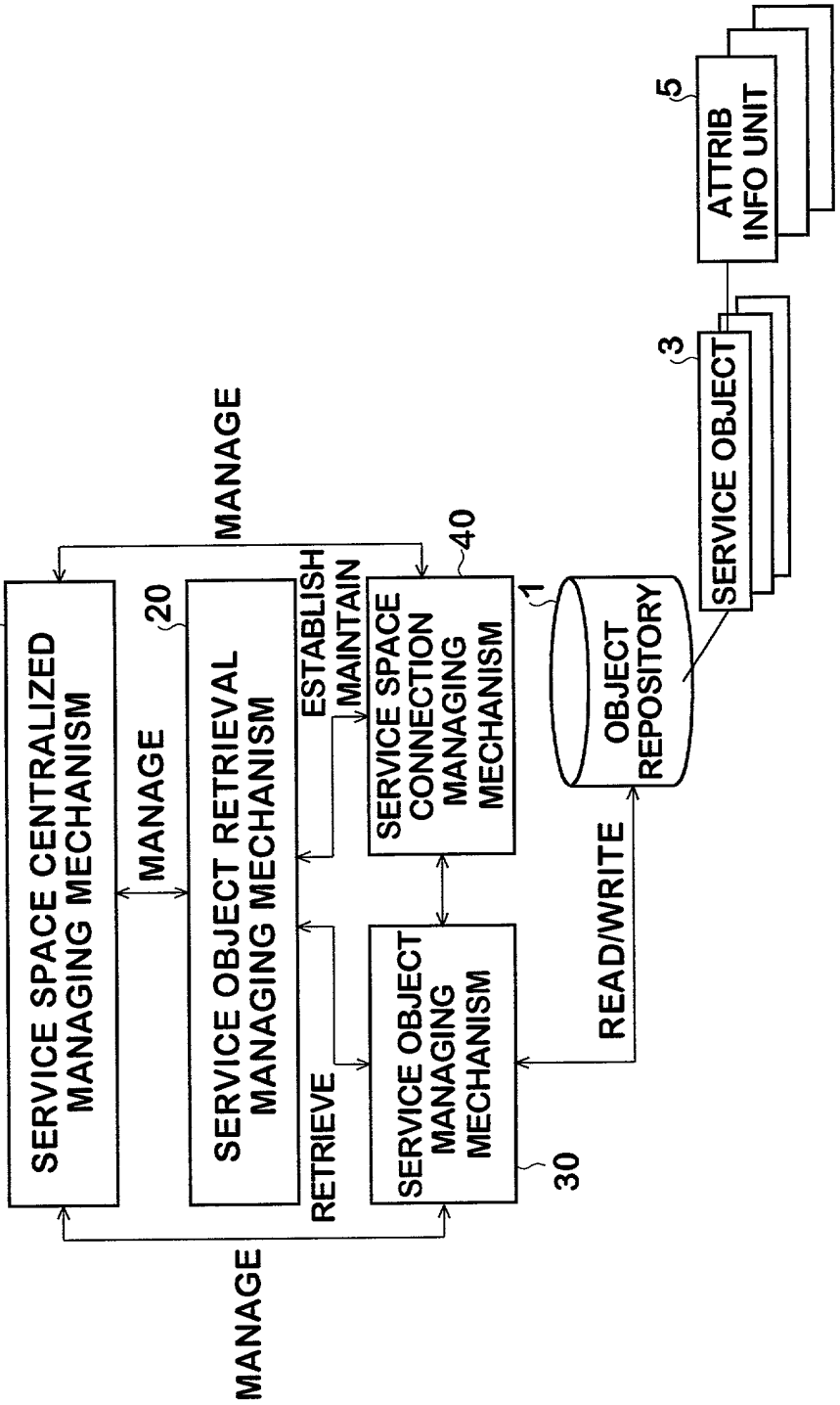
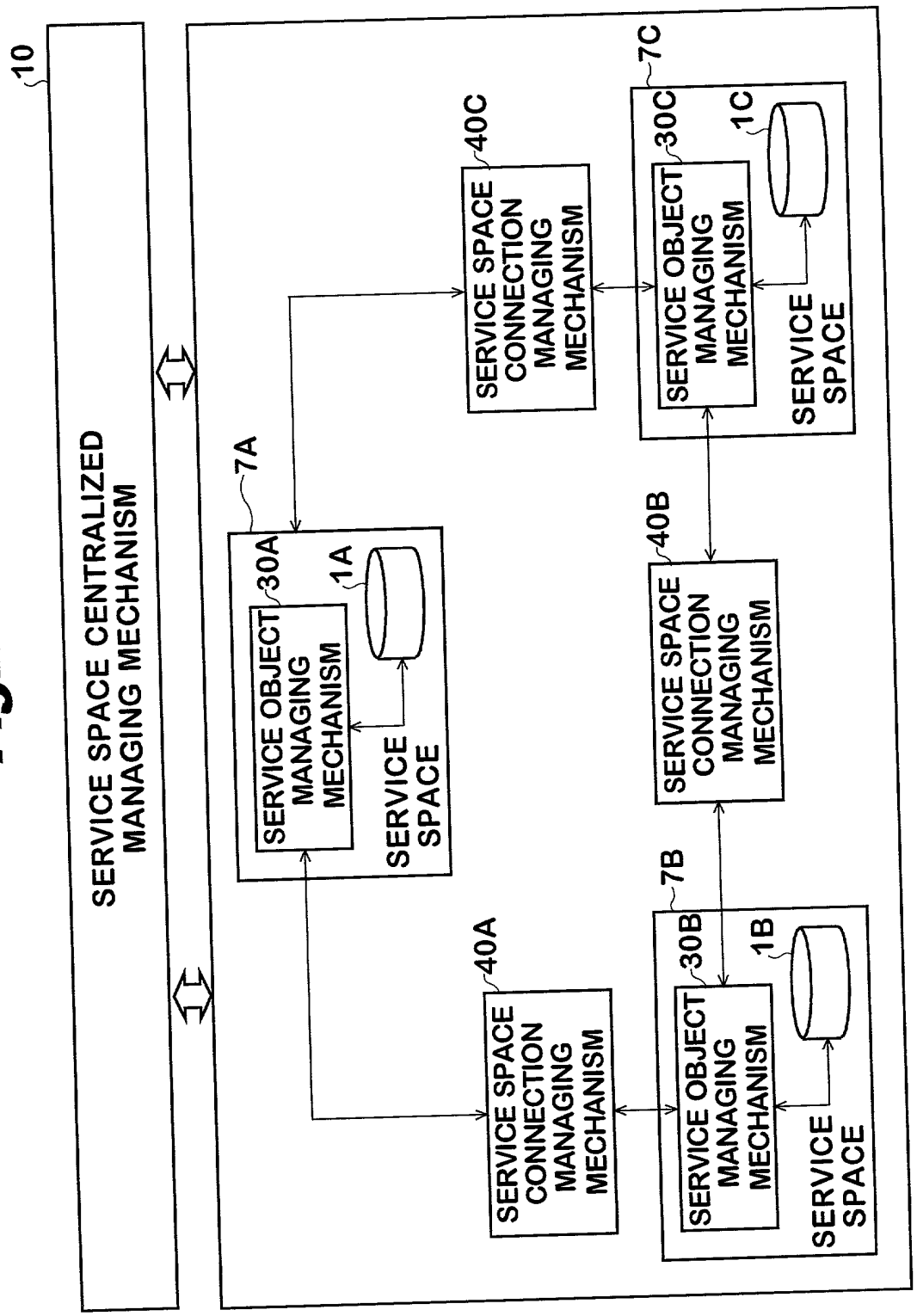

SERVICE SPACE CENTRALIZED MANAGING MECHANISM
10
SERVICE OBJECT RETRIEVAL MANAGING MECHANISM
20
SERVICE SPACE CONNECTION MANAGING MECHANISM
40
SERVICE OBJECT MANAGING MECHANISM
30
OBJECT REPOSITORY
1
SERVICE OBJECT
3
ATTRIB INFO UNIT
5
MANAGE
MANAGE
MANAGE
ESTABLISH
MAINTAIN
RETRIEVE
READ/WRITE

Fig.2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SERVICE SPACE CENTRALIZED MANAGING MECHANISM
7A
SERVICE OBJECT MANAGING MECHANISM
30A
1A
SERVICE SPACE
40C
SERVICE SPACE CONNECTION MANAGING MECHANISM
7C
SERVICE OBJECT MANAGING MECHANISM
30C
1C
SERVICE SPACE
40B
SERVICE SPACE CONNECTION MANAGING MECHANISM
7B
SERVICE OBJECT MANAGING MECHANISM
30B
1B
SERVICE SPACE
40A
SERVICE SPACE CONNECTION MANAGING MECHANISM

Fig.3

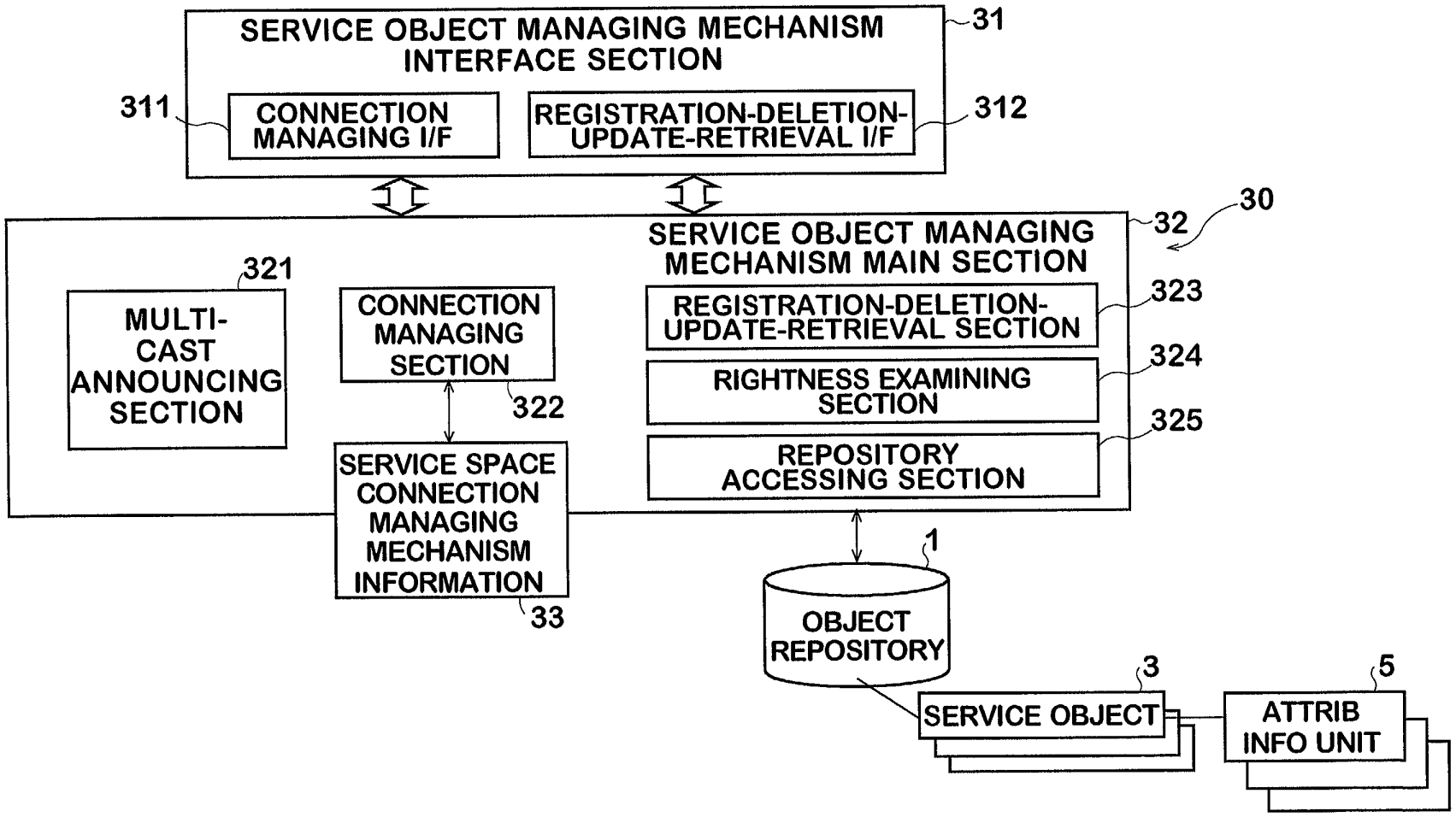
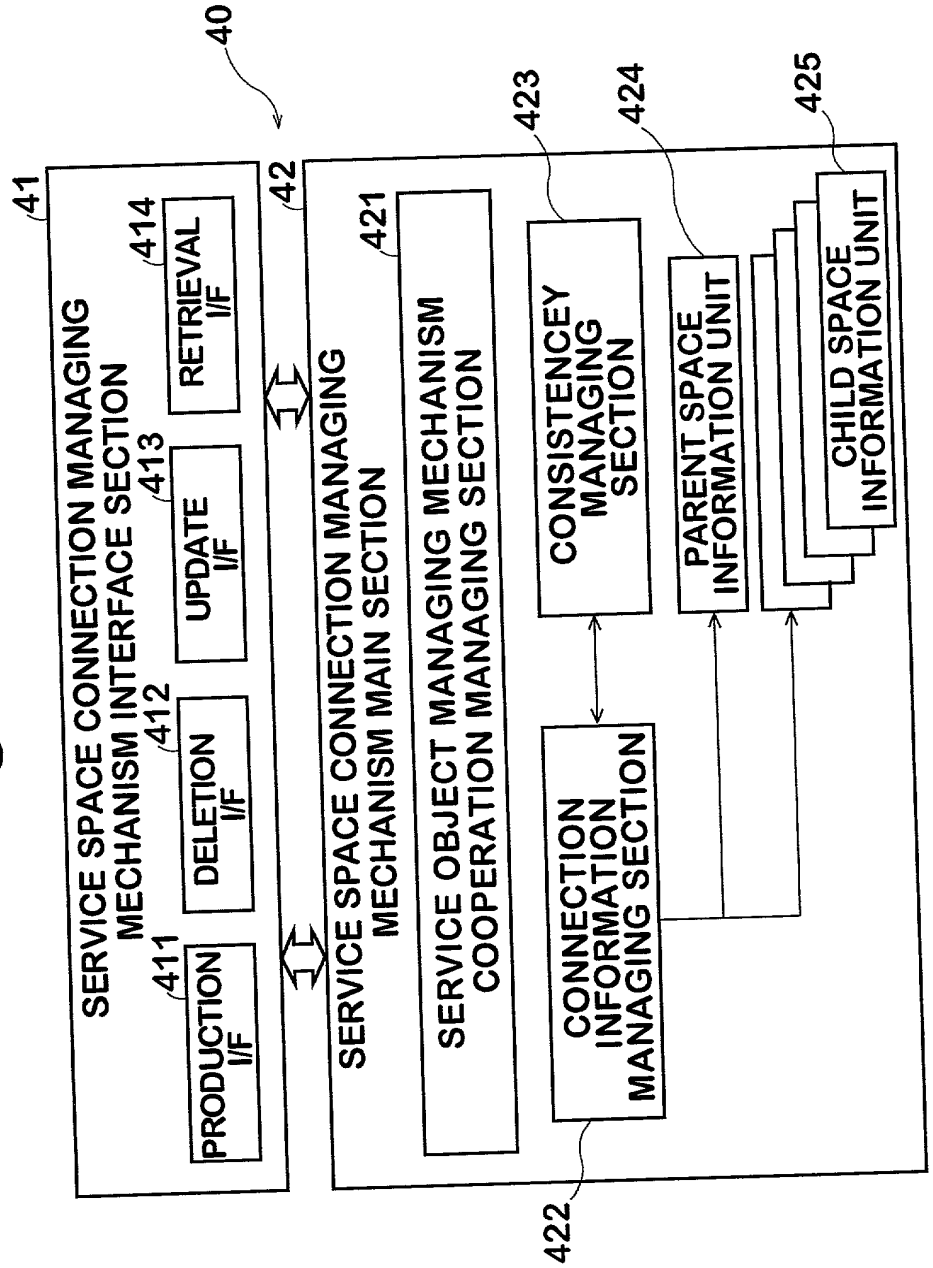

SERVICE OBJECT MANAGING MECHANISM INTERFACE SECTION
31
311
CONNECTION MANAGING I/F
REGISTRATION-DELETION-UPDATE-RETRIEVAL I/F
312
30
32
SERVICE OBJECT MANAGING MECHANISM MAIN SECTION
321
MULTI-CAST ANNOUNCING SECTION
CONNECTION MANAGING SECTION
322
REGISTRATION-DELETION-UPDATE-RETRIEVAL SECTION
323
RIGHTNESS EXAMINING SECTION
324
REPOSITORY ACCESSING SECTION
325
SERVICE SPACE CONNECTION MANAGING MECHANISM INFORMATION
33
1
OBJECT REPOSITORY
3
SERVICE OBJECT
5
ATTRIB INFO UNIT

Fig.4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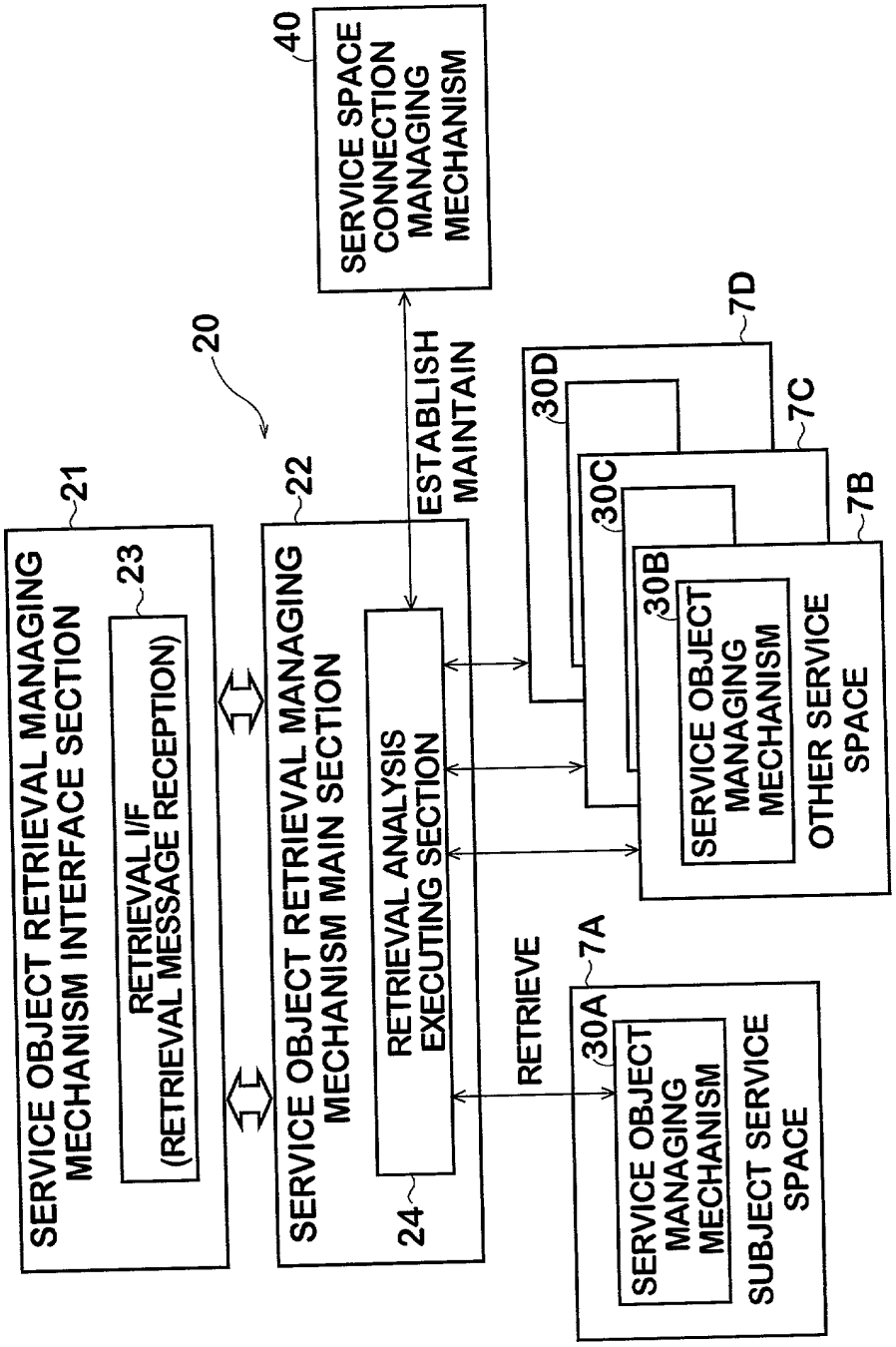
41
SERVICE SPACE CONNECTION MANAGING MECHANISM INTERFACE SECTION
411
PRODUCTION I/F
412
DELETION I/F
413
UPDATE I/F
414
RETRIEVAL I/F
42
SERVICE SPACE CONNECTION MANAGING MECHANISM MAIN SECTION
421
SERVICE OBJECT MANAGING MECHANISM COOPERATION MANAGING SECTION
422
CONNECTION INFORMATION MANAGING SECTION
423
CONSISTENCEY MANAGING SECTION
424
PARENT SPACE INFORMATION UNIT
425
CHILD SPACE INFORMATION UNIT

Fig.5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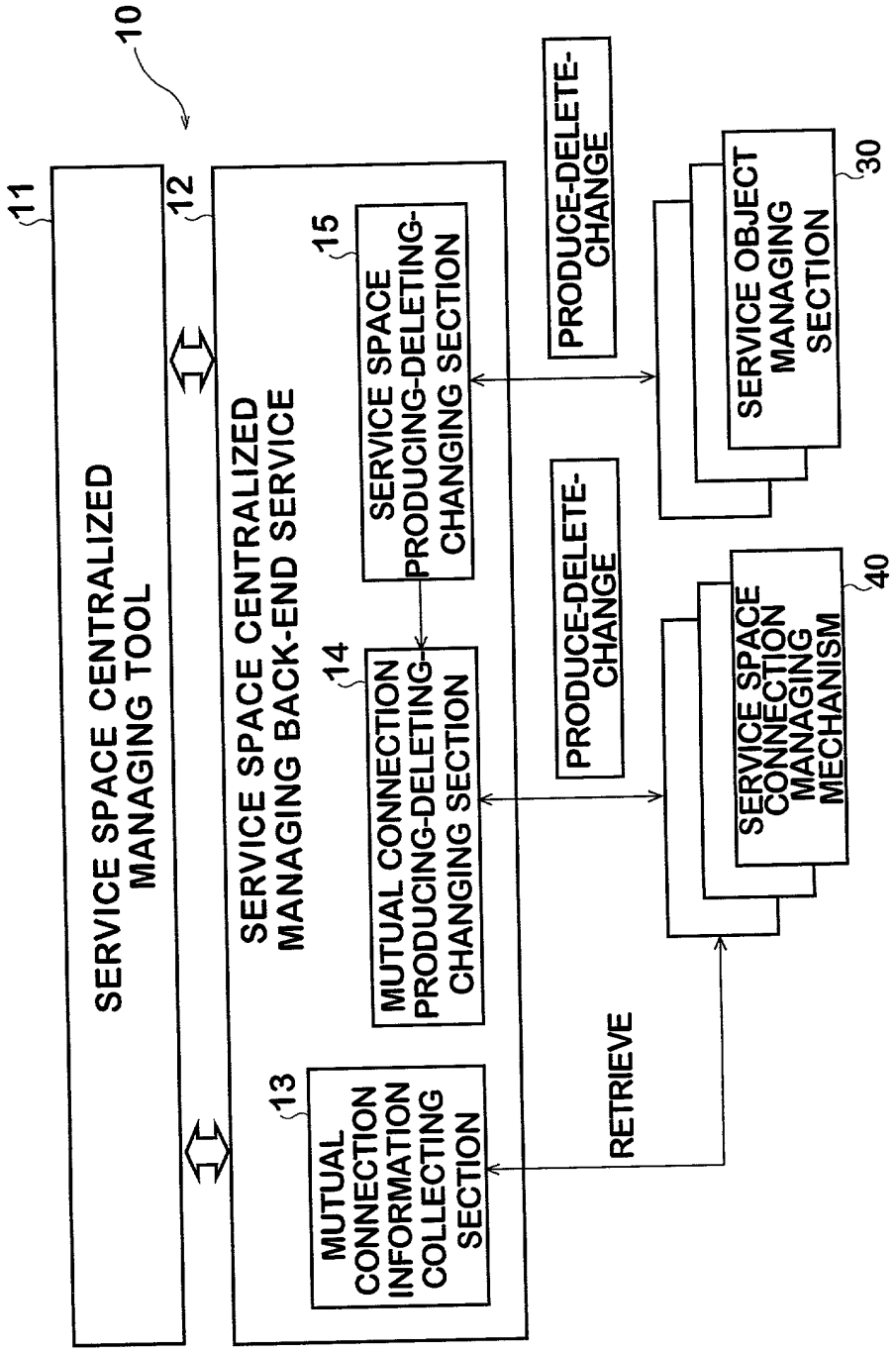
SERVICE SPACE CONNECTION MANAGING MECHANISM
20
ESTABLISH MAINTAIN
21
SERVICE OBJECT RETRIEVAL MANAGING MECHANISM INTERFACE SECTION
23
RETRIEVAL I/F (RETRIEVAL MESSAGE RECEPTION)
22
SERVICE OBJECT RETRIEVAL MANAGING MECHANISM MAIN SECTION
RETRIEVAL ANALYSIS EXECUTING SECTION
24
RETRIEVE
7A
30A
SERVICE OBJECT MANAGING MECHANISM
SUBJECT SERVICE SPACE
7B
30B
SERVICE OBJECT MANAGING MECHANISM
OTHER SERVICE SPACE
7C
30C
7D
30D

Fig.6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11
12
SERVICE SPACE CENTRALIZED MANAGING TOOL
SERVICE SPACE CENTRALIZED MANAGING BACK-END SERVICE
13
MUTUAL CONNECTION INFORMATION COLLECTING SECTION
14
MUTUAL CONNECTION PRODUCING-DELETING-CHANGING SECTION
15
SERVICE SPACE PRODUCING-DELETING-CHANGING SECTION
PRODUCE-DELETE-CHANGE
PRODUCE-DELETE-CHANGE
RETRIEVE
30
SERVICE OBJECT MANAGING SECTION
40
SERVICE SPACE CONNECTION MANAGING MECHANISM

Fig.7

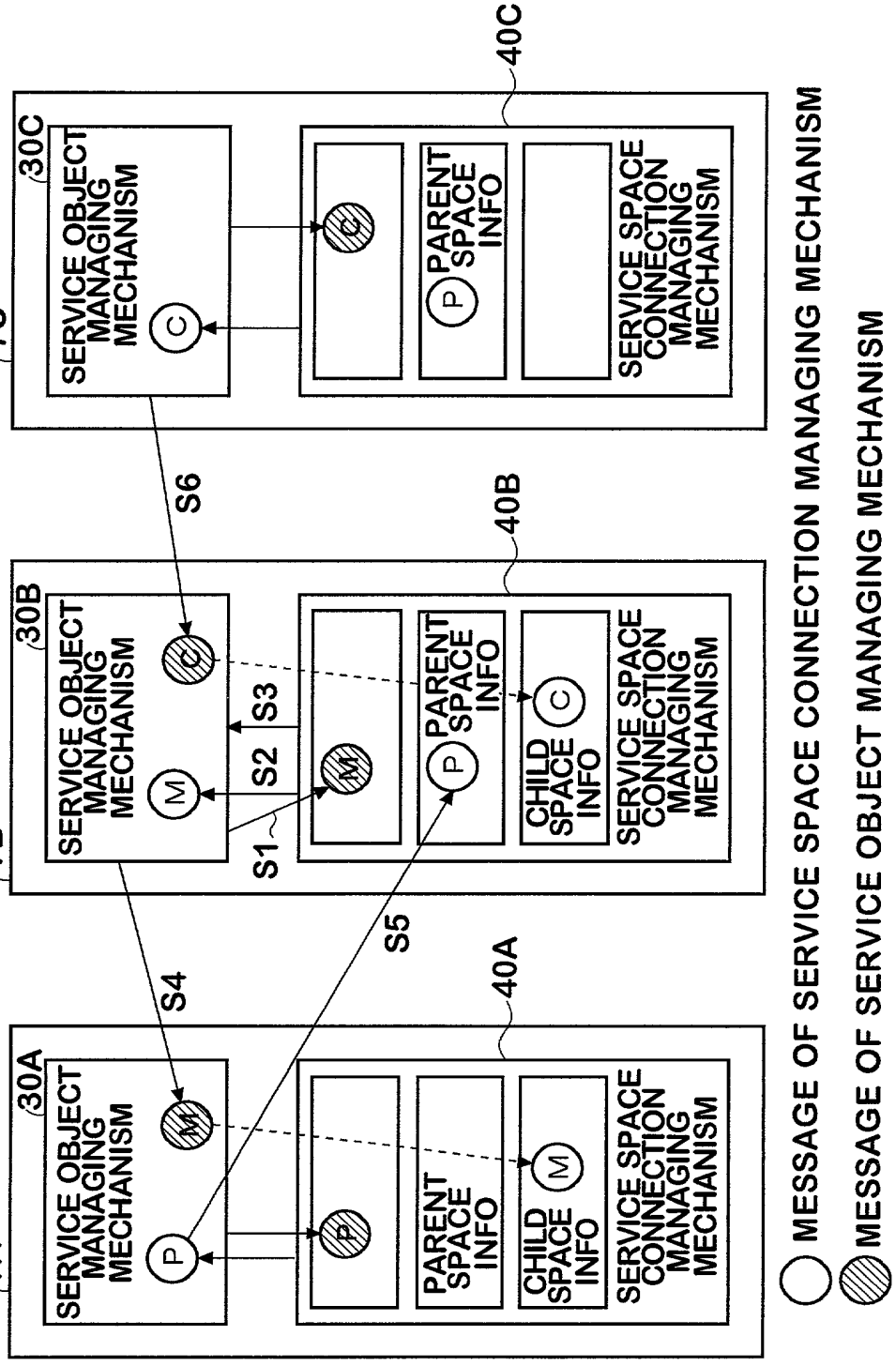

7A
30A
SERVICE OBJECT MANAGING MECHANISM
P
M
40A
P
PARENT SPACE INFO
CHILD SPACE INFO
M
SERVICE SPACE CONNECTION MANAGING MECHANISM
7B
30B
SERVICE OBJECT MANAGING MECHANISM
M
C
S1
S2
S3
40B
M
P PARENT SPACE INFO
CHILD SPACE INFO
C
SERVICE SPACE CONNECTION MANAGING MECHANISM
7C
30C
SERVICE OBJECT MANAGING MECHANISM
C
40C
C
P PARENT SPACE INFO
SERVICE SPACE CONNECTION MANAGING MECHANISM
S4
S5
S6
MESSAGE OF SERVICE SPACE CONNECTION MANAGING MECHANISM
MESSAGE OF SERVICE OBJECT MANAGING MECHANISM

Fig.8

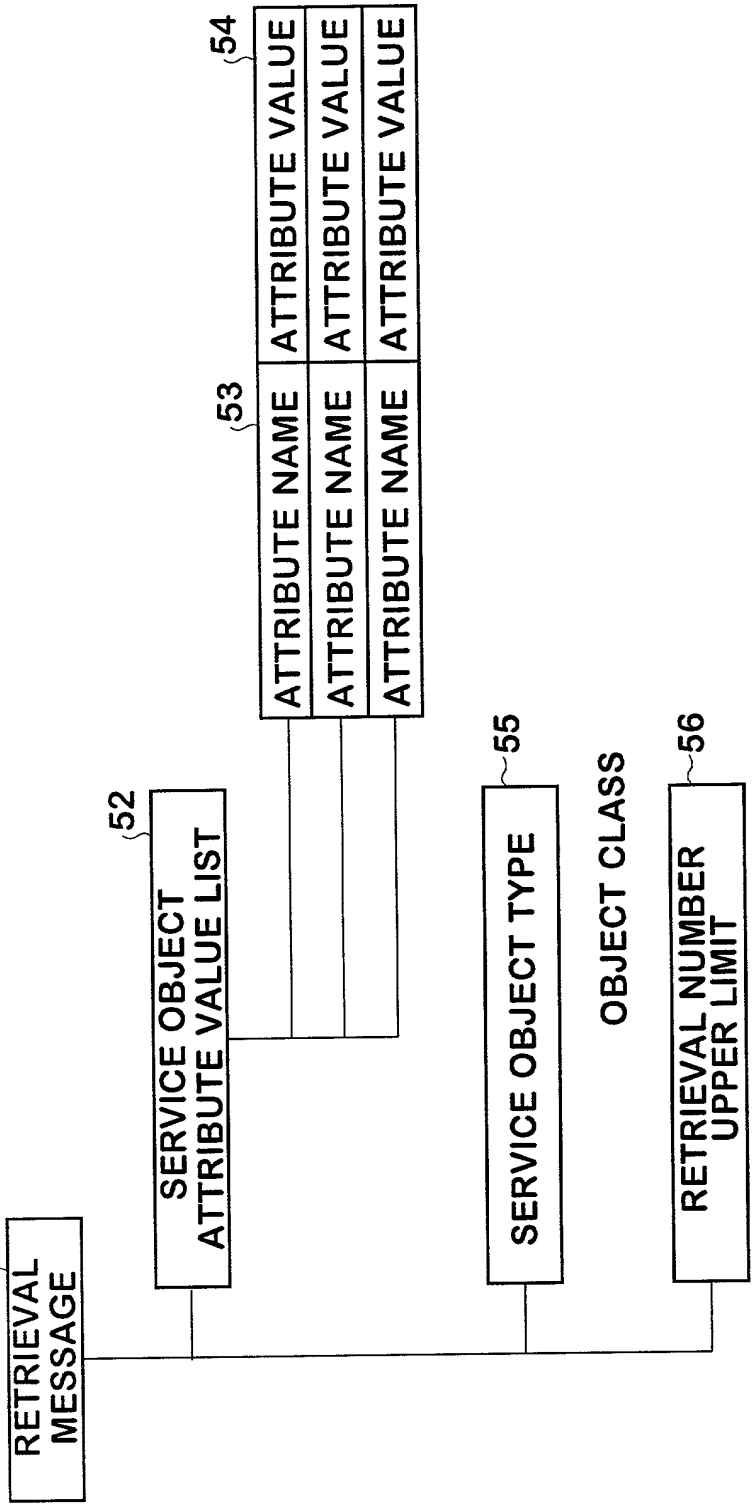

51
RETRIEVAL MESSAGE
52
SERVICE OBJECT ATTRIBUTE VALUE LIST
53
ATTRIBUTE NAME
ATTRIBUTE NAME
ATTRIBUTE NAME
54
ATTRIBUTE VALUE
ATTRIBUTE VALUE
ATTRIBUTE VALUE
55
SERVICE OBJECT TYPE
OBJECT CLASS
56
RETRIEVAL NUMBER UPPER LIMIT

Fig.9

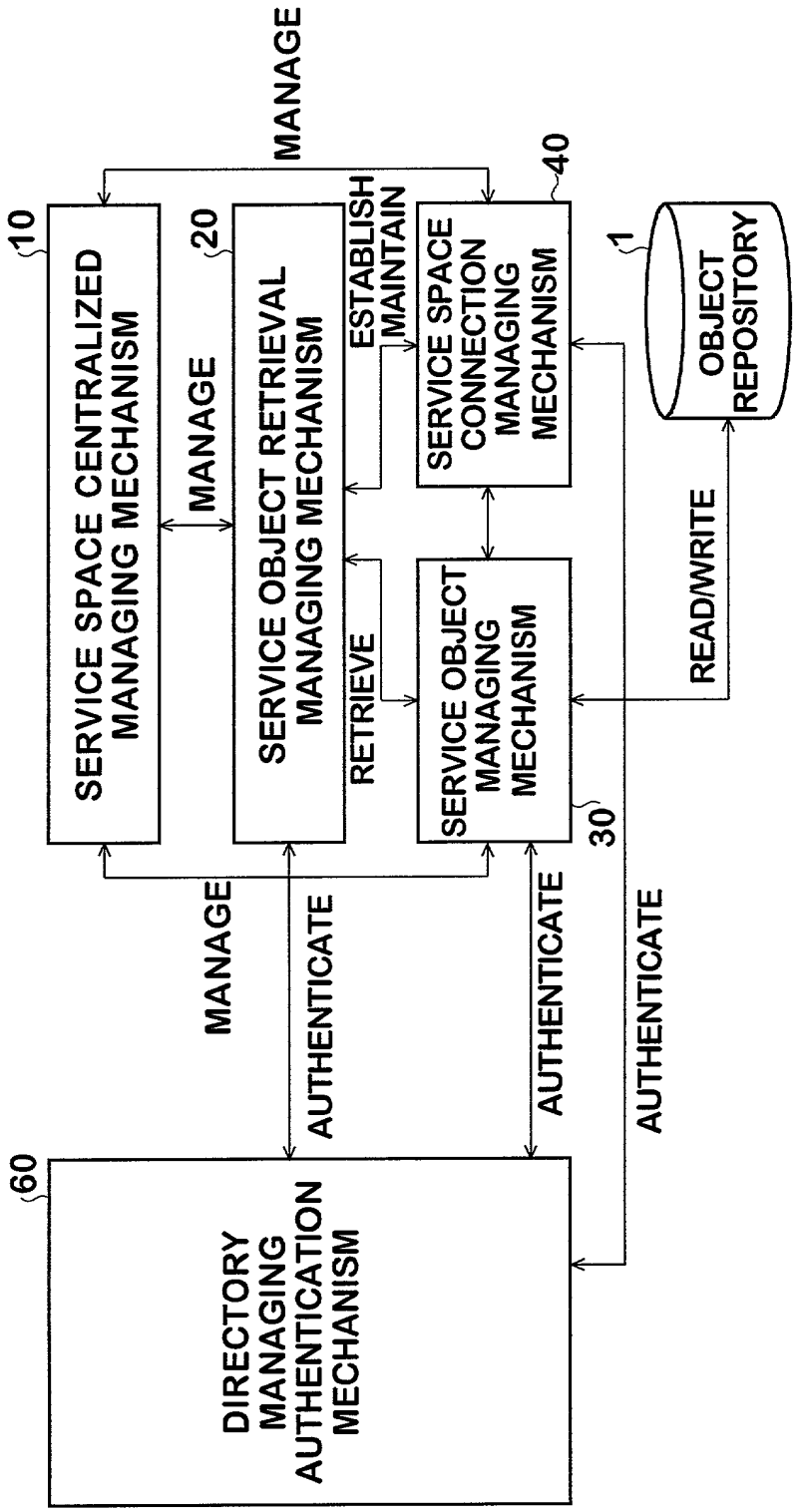

MANAGE
10
SERVICE SPACE CENTRALIZED MANAGING MECHANISM
20
SERVICE OBJECT RETRIEVAL MANAGING MECHANISM
ESTABLISH MAINTAIN
40
SERVICE SPACE CONNECTION MANAGING MECHANISM
1
OBJECT REPOSITORY
MANAGE
RETRIEVE
SERVICE OBJECT MANAGING MECHANISM
30
READ/WRITE
MANAGE
AUTHENTICATE
AUTHENTICATE
AUTHENTICATE
60
DIRECTORY MANAGING AUTHENTICATION MECHANISM

Fig.10

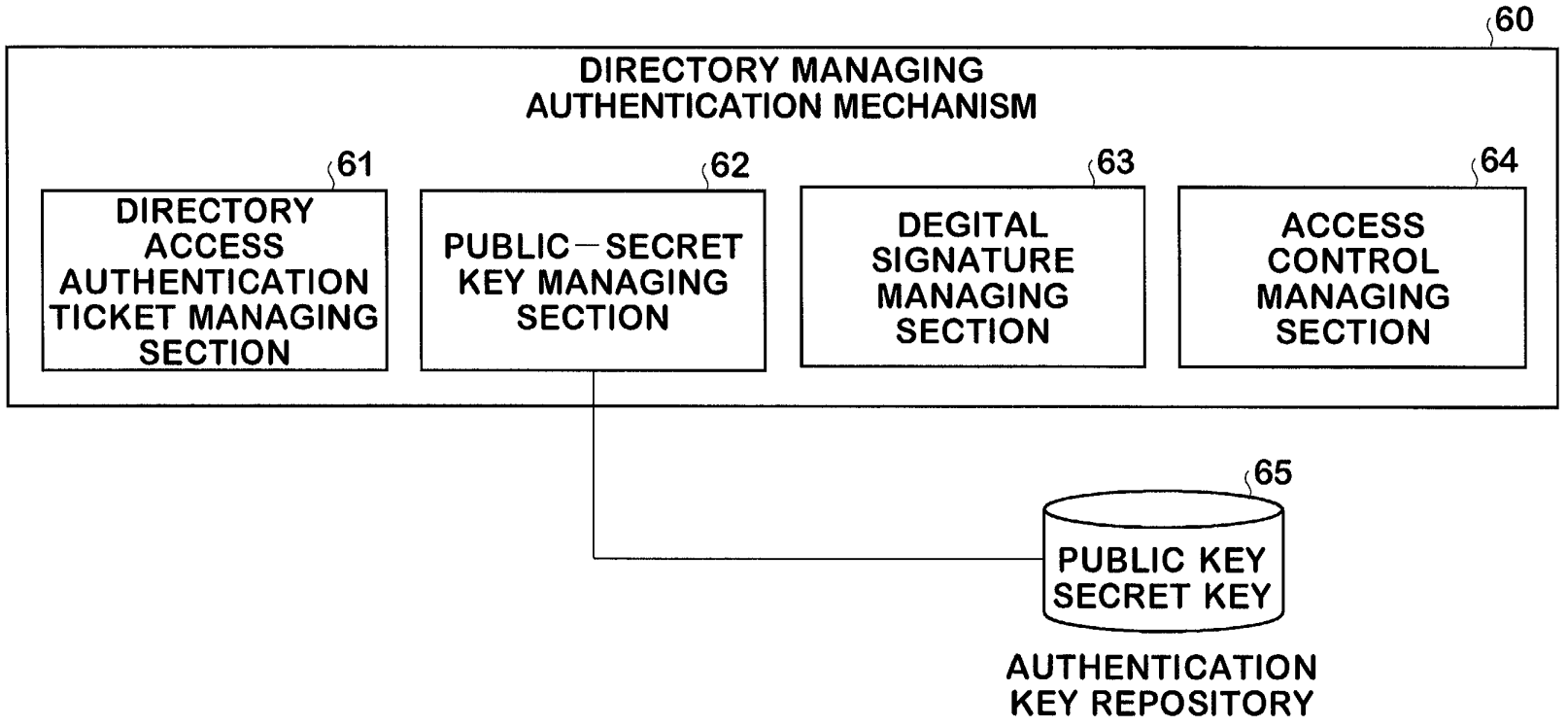
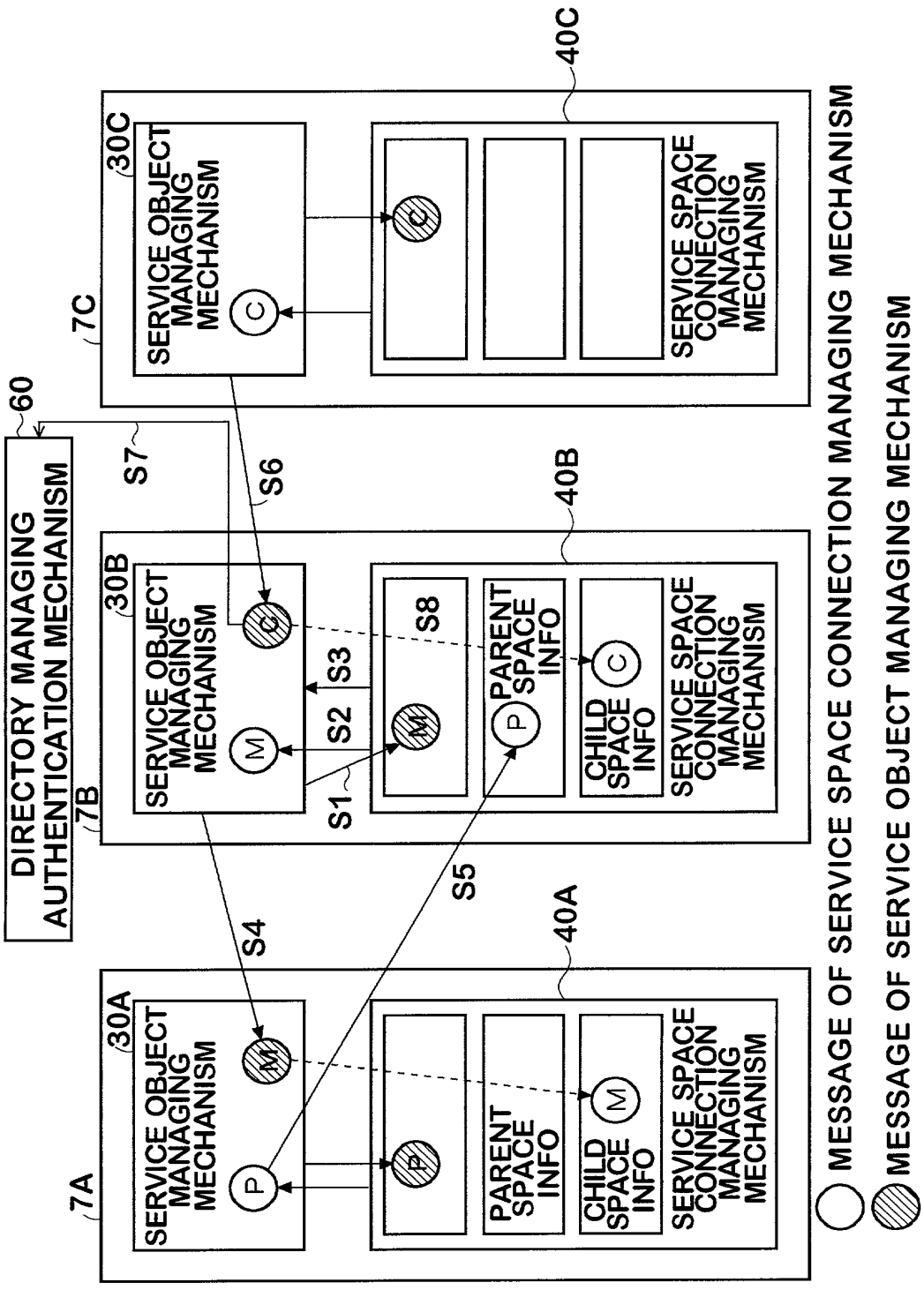

60
DIRECTORY MANAGING
AUTHENTICATION MECHANISM
61
DIRECTORY
ACCESS
AUTHENTICATION
TICKET MANAGING
SECTION
62
PUBLIC－SECRET
KEY MANAGING
SECTION
63
DEGITAL
SIGNATURE
MANAGING
SECTION
64
ACCESS
CONTROL
MANAGING
SECTION
65
PUBLIC KEY
SECRET KEY
AUTHENTICATION
KEY REPOSITORY

Fig.11


DIRECTORY MANAGING AUTHENTICATION MECHANISM
60
7A
30A
SERVICE OBJECT MANAGING MECHANISM
40A
PARENT SPACE INFO
CHILD SPACE INFO
SERVICE SPACE CONNECTION MANAGING MECHANISM
7B
30B
40B
7C
30C
40C
S1
S2
S3
S4
S5
S6
S7
S8
MESSAGE OF SERVICE SPACE CONNECTION MANAGING MECHANISM
MESSAGE OF SERVICE OBJECT MANAGING MECHANISM